Journal of the Geological Society, London, Vol. **161**, 2004, pp. 1057–1062. Printed in Great Britain.

Index

absolute age 223–228, 421–430
  see also $^{40}Ar/^{39}Ar$; Pb/Pb; U–Pb
accretion, history of Southern Uplands 829–836
accretionary wedge, Mesozoic of Tibet 523–538
Albert Formation 969–981
Alboran microplate 265–276
alluvial plains, Carboniferous of Canada 209–222
Alpine orogeny, Turkey 93–101
Alps (Western), strain patterns in nappes 875–884
Altaids, Palaeozoic tectonostratigraphy 339–342
Ameralik dykes 421–430
anatexis, Variscan of Iberia 255–263
Anatolia, dating of metamorphism 823–828
Andes (Central), volcanic hazards 603–618
Anglesey, provenance of detrital zircons 743–746
anorthosite
  Bushveld 903–909
  Outer Hebrides 45–54
Antarctica, Ross orogen 1027–1038
Apennines, normal fault slip 1039–1051
$^{40}Ar/^{39}Ar$ dating
  Bushveld ore 411–420
  fault reactivation 335–338
  muscovite in mylonites 573–582
  Ross orogen 1027–1038
Archaean
  Greenland dykes 421–430
  orthogneiss age 45–54
  Zimbabwe craton 431–445
arid environments, Carboniferous of Canada 209–222
Armorica, provenance studies 463–476
Asia (Central), Palaeozoic tectonostratigraphy 339–342
Assynt Culmination, ramp and thrust terminations 551–554
Atlantic Ocean (North), Triassic rifting 583–592
Australia
  Palaeoproterozoic faulting and magmatism 55–66
  Upper Devonian volcanics 223–228
Avalonia
  evidence from Nova Scotia and Shropshire 243–254
  evidence from Anglesey 743–746

baddeleyite 447–462
Bainang terrane 523–538
Ballachulish Complex 447–462
Barakar Formation 117–131
basalts
  Permina of China 773–781
  see also flood basalts
basin tectonics 593–602
belemnites, stable isotope analysis in 959–968
Belgium, deformation geometry 641–652
Ben More Thrust, ramp and thrust terminations 551–554
biogeography, Cambrian 477–487
biostratigraphy, Cretaceous 185–208
black shale, Re–Os system 729–734
Brabant Massif, deformation geometry 641–652
brachiopods, Palaeozoic 555–572
Bristol Channel, Variscan structure 31–44
Britain (SW), Triassic–Jurassic boundary 365–379, 1053–1056
Broken Hill, Palaeoproterozoic faulting and magmatism 55–66
Brunovistulian terrane 513–522
Bulawayan Supergroup 431–445
Burgess Shale 735–738
Bushveld Complex
  chromitites 903–909
  thermochronology 411–420

$\delta^{13}C$
  across K–T boundary 885–892
  analysis in belemnites 959–968
  Cretaceous chemostratigraphy 133–145, 711–719
  Jurassic marine productivity 667–673
  Mesozoic palaeoclimate 695–702
  ocean anoxic events 353–364
  Palaeocene–Eocene of North America 173–184
calcification, Early Jurassic 685–693
calcite in mylonite 67–79
Caledonian orogeny and Caledonides
  dating of metasediments 619–627
  deformation in Ireland 629–640
  Greenland (East) structures 1009–1026
  Southern Uplands metamorphism 829–836
Cambrian
  Anglesey detrital zircons 743–746
  Brunovistulian terrane 513–522
  Nova Scotia/Shropshire detrital zircons 243–254
  Oman environment 489–499
  palaeobiogeography 477–487
Canada
  Cambrian clastics 243–254
  Mississipian lycopsid forests 969–981
  Pennsylvanian palaeoecology 209–222
carbon cycle
  Cenomanian 721–728
  volcanism and palaeoclimate 695–702
carbon isotopes *see* $\delta^{13}C$
carbonate sedimentation model 387–399
Carboneras Basin 387–399
Carboniferous
  palaeoecology 209–222, 969–981
  sill intrusion events 927–938
Cenomanian, carbon and phosphorus fluxes 721–728
Cenozoic, uplift in Britain 19–29
Central Anatolian Crystalline Complex 823–828
Cerberean volcanics 223–228
Chalk Group, Denmark 343–352
charcoal, Carboniferous wildfire evidence 969–981
chemostratigraphy
  Cretaceous 133–145, 703–709, 711–719
  Dalradian 229–242
Chile, volcanic hazards 603–618
China, palaeokarst of Upper Devonian 895–898
chromitite, Bushveld 903–909
Cimmerian, North Sea 1–17
clay minerals, role in fossilization 735–738
climate change
  Jurassic 675–683
  organic carbon and ocean chemistry 653–654
  Palaeogene 161–172, 173–184
coal, Central India 117–131

Corinth, Gulf of 81–92
correlation, Palaeogene mammals and global climate 161–172
Corsica, Hercynian granitoids 277–289
Cretaceous
  belemnites and isotope analysis 959–968
  boundary with Palaeogene in Denmark 343–352
  carbon isotope stratigraphy 133–145, 711–719
  carbon and phosphorus fluxes 721–728
  North Sea unconformities 1–17
  ocean anoxic events 353–364
  orogeny and India–Eurasia collision 799–812
  palaeoceanography 703–709
  stratigraphy of Orange Basin 185–208
cross-sections, Iberian Chain 291–303
crustal shortening, Iberian Chain 291–303
crustal thinning, Porcupine Basin 783–798
cyclostratigraphy, Late Jurassic of Dorset 655–666

Dalradian
  limestone chemostratigraphy 229–242
  orogeny record in Ireland 629–640
debris avalanches, volcanic risks in Chile 603–618
deep sea sediments, volcaniclastic 947–957
deformation
  Everest Massif petrofabrics 305–320
  Moine Supergroup 861–874
deltaic environment
  coal measure sedimentation 117–131
  forest growth in 969–981
Denmark, K–T boundary 343–352, 885–892
density currents 947–957
detachment faults
  Palaeoproterozoic of Australia 55–66
  Porcupine Basin 783–798
Devonian
  palaeokarst in China 895–898
  volcanics of Australia 223–228
diffusion, role in $^{40}Ar/^{39}Ar$ dating 573–582
discussion contributions
  exhumation history of Ladakh 893–894
  Madagascar metasediments 539–541
  sea-level change at Triassic–Jurassic boundary 1053–1056
diversity, Palaeogene mammal fauna 161–172
dolerite, Whin Sill 927–938
Dorset (UK)
  Late Jurassic cyclostratigraphy 655–666
  Late Jurassic marine total organic carbon 667–673
duplexes
  Moine Thrust Belt evolution 849–859
  transpressional tectonics of Indochina 799–812
dykes, Whin Sill feeder 927–938

earthquakes
  Cenozoic in Britain 19–29
  fault slip and 1039–1051
Eastbourne (UK), Cretaceous chemostratigraphy 711–719
Eastern Junggar, Palaeozoic tectonostratigraphy 339–342
ecology *see* palaeoecology
editorial 543
Elba, normal fault slip 1039–1051
Eliki fault 81–92
Emeishan basalts 773–781
emplacement, mechanisms for Whin Sill 927–938
England
  Cretaceous chemostratigraphy 711–719
  Late Jurassic cyclostratigraphy 655–666
  Palaeogene mammals 161–172
environment of deposition, Mediterranean carbonates 387–399
Eocene, paratropical flora of North America 173–184
euxinia, Mesozoic 353–364
Everest Massif, petrofabric analysis 305–320
exhumation
  Ladakh history (discussion) 893–894
  Tibet 305–320
extension
  Archaean of Zimbabwe 431–445
  Gulf of Corinth 81–92
extinction
  Frasnian–Famennian 895–898
  Triassic–Jurassic boundary 365–379, 1053–1056
extrusion, modelling in salt 321–334

facies architecture, flood basalt of Skye 911–926
Famatinian Arc 747–756
faults *see* normal faults; thrusting
finite strain analysis, Western Alps 875–884
fish, Palaeozoic 555–572
Fish Clay 885–892
flank collapse, Montserrat 147–160
flood basalts
  facies architecture 911–926
  Karoo province 547–550
flora *see* plants and plant fossils
flysch, Armorica 463–476
folds and folding
  Lower Palaeozoic of Belgium 641–652
  modelling in salt extrusion 321–334
  South Urals 813–822
forelands, South Urals 813–822
fossilization, role of clay minerals 735–738
fossils *see* belemnites; brachiopods; fish, insects; mammals; microplankton; palynology; plants; radiolarians; trilobites
geochemistry
  airborne silicates 899–902
  Ballachulish Igneous Complex 447–462
  Iberian Pyrite Belt 103–115
geochronology 223–228, 421–430
  see also $^{40}Ar/^{39}Ar$; Pb/Pb; U–Pb
geomorphology, Montserrat 147–160
geotechnics, rock failure and volcano collapse 939–946
glaciation, impact on hydrogeology 995–1008
Glencoe Igneous Complex 447–462
Glencoul
  Moine Thrust Belt evolution 849–859
  ramp and thrust terminations 551–554
Gondwana
  coal measures of India 117–131
  Neoproterozoic arc 243–254
  Ordovician position 747–756
Gran Paradiso massif, strain patterns in nappes 875–884
granites, Hercynian of Corsica and Sardinia 277–289
Great Britain, Cenozoic uplift 19–29
Greece
  Cretaceous palaeoceanographic record 703–709
  terraces and faulting 81–92
Greenland,
  Archaean dykes 421–430
  Caledonian orogeny 1009–1026
  Triassic rifting evidence 583–592
greenschist facies 573–582
Gubbio (Italy), Cretaceous chemostratigraphy 711–719

Guilin (China), palaeokarst of Upper Devonian 895–898

Hampshire Basin, Palaeogene mammals 161–172
heat flow, Southern Uplands accretion 829–836
Hebert Beds 209–222
Hebrides (Outer), construction and evolution 837–848
Hercynian, granitoids of Corsica and Sardinia 277–289
high resolution methods, climate change recording 675–683
Himalayas
  Ladakh exhumation history (discussion) 893–894
  petrofabric analysis 305–320
Holocene
  terraces and faulting in Greece 81–92
  volcanic activity in Chile 603–618
Horton Group 969–981
hot springs and silicification 983–993
hummocky cross stratification, coal measures 117–131

Iberia
  dating Peña Negra Complex 255–263
  Iberian Chain tectonics 291–303
  NW massif provenance studies 463–476
  Pyrite Belt provenance and geochemistry 103–115
impact crater, North Sea 593–602
incised valleys, South Africa 185–208
India, coal measure sedimentation 117–131
Indochina, transpressional tectonics 799–812
insects, Triassic of South Africa 401–410
intertidal sedimentation, coal measures 117–131
intrusion, New Zealand rhyolitic magmatism 757–772
inversion tectonics, Iberian Chain 291–303
Ionian zone, Cretaceous palaeoceanographic record 703–709
Iran, salt extrusion modelling 321–334
Ireland
  Dalradian chemostratigraphy 229–242
  Neoproterozoic unconformity 629–640
isotope geochemistry, Cambrian environment 489–499
Italy
  Cretaceous chemostratigraphy 711–719
  normal fault slip 1039–1051
  strain in Alpine nappes 875–884
Itremo Group (discussion) 539–541

Joggins (Nova Scotia), Carboniferous palaeoecology 209–222
Jurassic
  belemnites and isotope analysis 959–968
  climate change recording 675–683
  cyclostratigraphy 655–666
  marine total organic carbon 667–673
  North Sea unconformities 1–17
  ocean anoxic events 353–364
  palaeoceanography 685–693
  sea-level change 365–379, 1053–1056

K-bentonites, dating in Argentinian Precordillera 747–756
K–T boundary, Denmark 885–892
kaolinite, Palaeocene–Eocene chemical weathering 173–184
Karoo volcanic province 547–550
Kimmeridge Clay Formation
  marine total organic carbon 667–673
  record of environmental change 675–683
Kimmeridgian cyclostratigraphy 655–666
Kirşehir Massif, dating of metamorphism 823–828

Ladakh, exhumation history (discussion) 893–894
Langavat Belt 837–848
large igneous provinces, Archaean of Zimbabwe 431–445
Laurentia
  Caledonian orogenic events 1009–1026
  zircon provenance studies 861–874
Lebombo, rhyolite age 547–550
legislation, airborne silicates and health 899–902
Leknes Group 619–627
Lewisian, orthogneiss U–Pb age 45–54
Lewisian Complex, construction and evolution 837–848
limestone, Dalradian chemostratigraphy 229–242
Loch Eil Group 861–874
Lofoten Islands, Caledonian metasediment dating 619–627
lycopsids 969–981

Macquarie Island, ocean crust growth evidence 739–742
Madagascar, metasediments (discussion) 539–541
magmatism
  Ordovician of Sicily 265–276
  Palaeoproterozoic of Broken Hill 55–66
  rhyolites of New Zealand 757–772
magnetic anomalies, fold geometry in Belgium 641–652
magnetic susceptibility, granitoid 277–289
Malaysia, Cretaceous–Palaeogene orogeny 799–812
maleimides 353–364
mammals, Palaeogene of Hampshire Basin 161–172
mantle plumes
  Archaean of Zimbabwe 431–445
  Cenozoic uplift in Britain 19–29
  Palaeocene of North Sea 381–386
  South China Craton rifting 773–781
marine terraces, Gulf of Corinth 81–92
mass extinction *see* extinction
Menderes massif, structural and thermal history 93–101
Mesozoic
  climate change and ocean chemistry 653–654
  extension in Iberian Chain 291–303
  ocean anoxic events 353–364
  palaeoenvironment analysis 729–734
  southern Tibet 523–538
  volcanism and palaeoclimate 695–702
metamorphic core complex, Palaeoproterozoic of Australia 55–66
metamorphism
  dating events in Anatolia 823–828
  history of Southern Uplands 829–836
microbe silicification 983–993
micropalaeontology, Cretaceous 703–709
microplankton, Jurassic ocean anoxia 685–693
microstructure, in calcite mylonites 67–79
mid-ocean ridge, Macquarie Island 739–742
Milankovitch theory, applied to Jurassic 675–683
mineralization in fossilization 735–738
modelling and models
  basalt facies architecture 911–926
  salt extrusion 321–334
Moine Supergroup provenance studies 861–874
Moine Thrust Belt evolution 849–859
Moine Thrust Zone, ramp and thrust terminations 551–554
Molteno Formation 401–410
monazite
  dating of Anatolian metamorphism 823–828
  paragenesis in Ballachulish Complex 447–462
Montserrat, geomorphology 147–160
Møre–Trøndelag Fault Complex 335–338
Morocco, Cretaceous chemostratigraphy 711–719

mudrock
  Late Jurassic of Dorset 655–666
  Re–Os system 729–734
muscovite, geochronology in mylonites 573–582
Myanmar, Cretaceous–Palaeogene orogeny 799–812
mylonite
  calcite microstructure 67–79
  cooling and recrystallization 573–582

nannoplankton, ocean anoxia in Jurassic 685–693
nappes, strain patterns in Alpine 875–884
Neogene, Mediterranean carbonates 387–399
Neoproterozoic
  Dalradian chemostratigraphy 229–242
  dating detrital zircons 243–254
  Oman environment 489–499
  orogenic unconformity in Ireland 629–640
  palaeobiogeography 477–487
New Zealand
  rhyolitic magmatism 757–772
  silicification in hot springs 983–993
normal faults
  Gulf of Corinth 81–92
  slip in Italy 1039–1051
North Sea
  Jurassic–Cretaceous synrift sequence 1–17
  Palaeocene mantle plumes 381–386
  Silverpit Crater 593–602
Norway
  Caledonian metasediments 619–627
  Jurassic–Cretaceous synrift sequence 1–17

$\delta^{18}O$
  across K–T boundary 885–892
  analysis in belemnites 959–968
  Dalradian limestones 229–242
  Mesozoic palaeoclimate 695–702
ocean chemistry, climate change and organic carbon 653–654
oceanic anoxic events
  Jurassic 353–364, 685–693
  Cretaceous 711–719, 721–728
oceanic lithosphere, Macquarie Island 739–742
Okataina Volcanic Centre 757–772
Oman, Cambrian environment 489–499
ophiolites, Macquarie Island 739–742
Orange Basin biostratigraphy 185–208
Ordovician
  Alboran microplate evolution 265–276
  K-bentonites of Argentinian Precordillera 747–756
ore deposits, Bushveld 411–420
organic carbon (organic matter)
  climate change and ocean chemistry 653–654
  Jurassic marine record in Dorset 667–673
  Re–Os system 729–734
  record of environmental change 675–683
orogeny
  India–Eurasia collision 799–812
  record in Ireland 629–640
  Tethys evolution 501–511
Outer Hebrides, Lewisian orthogneiss age 45–54
palaeoceanography
  Cretaceous 703–709
  Early Jurassic 685–693
Palaeocene
  North Sea mantle plumes 381–386
  paratropical flora of North America 173–184
palaeoclimate, Mesozoic 695–702
palaeoecology
  Carboniferous of Canada 209–222, 969–981
  Triassic of South Africa 401–410
palaeoenvironment analysis, K–T boundary 885–892
Palaeogene
  climate change and ocean chemistry 653–654
  Denmark K–T boundary 343–352
  flood basalt of Skye 911–926
  mammalian faunal turnover 161–172
  orogeny and India–Eurasia collision 799–812
  see also Eocene; Palaeocene
palaeogeography
  Cambrian 513–522
  Devonian–Permian 555–572
palaeohydrogeology, Sellafield area 995–1008
palaeokarst, Upper Devonian of China 895–898
palaeomagnetism
  Carboniferous 927–938
  Cambrian 477–487, 513–522
  Devonian–Permian 555–572
Palaeoproterozoic
  Australian faulting and magmatism 55–66
  Hebrides orthogneiss 45–54
  Hebrides thrusting and imbrication 837–848
Palaeozoic
  Altaids tectonostratigraphy 339–342
  Avalonia detrital zircons 243–254
  Brabant Massif folding 641–652
  palaeogeography 555–572
palynology, Palaeocene–Eocene of North America 173–184
Pan-African orogeny, Turkey 93–101
particulates, airborne 899–902
Pb/Pb dating, Peña Negra Compex 255–263
Peloritan Mountains, Ordovician evolution 265–276
Peña Negra Complex 255–263
Permian
  coal measure sedimentation 117–131
  rifting in South China Craton 773–781
petrofabrics, Everest Massif 305–320
phosphorus record, Cenomanian 721–728
plants and plant fossils
  Carboniferous of Canada 209–222, 969–981
  Palaeocene–Eocene of North America 173–184
  Palaeozoic 555–572
  Triassic of South Africa 401–410
  see also wood
Pleistocene, terraces and faulting 81–92
Pliocene, Mediterranean carbonates 387–399
polar wander, Cambrian 477–487
polyphase processes, Menderes massif 93–101
Porcupine Basin crustal thinning 783–798
porphyroids, Ordovician of Sicily 265–276
Precaspian Basin, structural geology 813–822
productivity in Kimmeridgian of Dorset (UK) 655–666, 667–673
Proterozoic, Madagascar metasediments (discussion) 539–541
provenance
  detrital zircon evidence
    South Stack Group, Anglesey 743–746
    Iberian Massif evolution 463–476
    Moine Supergroup 861–874
  sediments of Iberian Pyrite Belt 103–115
pseudotachylite and fault reactivation 335–338
public health and airborne silicates 899–902
pyroclastics, volcanic risks in Chile 603–618
pyrolysis, Jurassic marine carbon record in Dorset 667–673

Quaternary, hydrogeology 995–1008
Qum Kuh salt extrusion modelling 321–334

radioactive waste, burial and hydrogeology 995–1008
radiolarians, Neotethyan 523–538
Re–Os isotope system 729–734
reactivation
  Møre–Trøndelag Fault Complex 335–338
  Variscan of Bristol Channel 31–44
recrystallization, metamorphic cooling in mylonites 573–582
rheology, weakened fault zones 1039–1051
rhyolites
  Karoo 547–550
  New Zealand 757–772
rifting
  Porcupine Basin 783–798
  South China Craton mantle plumes 773–781
  Triassic of North Atlantic 583–592
rock failure, volcanic hazard 939–946
rock mechanics, and volcano collapse 939–946
rock properties, variation in flood basalts 911–926
Ross orogen 1027–1038

$\delta^{34}S$, Cambrian environment 489–499
salt, extrusion modelling 321–334
salt tectonics, role in basin formation 593–602
sand volcanoes, analogy with igneous structures 903–909
Sardinia, Hercynian granitoids 277–289
Satpura Basin 117–131
Scotland
  Caledonian history of Southern Uplands 829–836
  Dalradian chemostratigraphy 229–242
  Highlands mineral paragenesis 447–462
  Lewisian orthogneiss age 45–54
  Moine ramp and thrust terminations 551–554
  Moine Supergroup provenance 861–874
  Moine Thrust Belt evolution 849–859
sea-level change
  Devonian 895–898
  Triassic–Jurassic boundary 365–379, 1053–1056
sedimentary basins, modelling heat flow 829–836
seismic methods, Variscan structure of Bristol Channel 31–44
seismic reflection, Porcupine Basin 783–798
seismic stratigraphy, Cretaceous of Orange Basin 185–208
serpentinization, Porcupine Basin 783–798
shear, strain patterns in Alpine nappes 875–884
sheeted dykes, Macquarie Island 739–742
SHRIMP dating
  Australian volcanics 223–228
  Greenland dykes 421–430
  K-bentonites of Argentinian Precordillera 747–756
  Karoo rhyolites 547–550
  metamorphism in Anatolia 823–828
Siberia, Jurassic–Cretaceous belemnites 959–968
Sicily, Ordovician evolution 265–276
silicate dust, airborne 899–902
silicification, hot spring 983–993
sills
  Iberian Pyrite Belt 103–115
  see also Whin Sill
Silverpit Crater (UKNS) 593–602
Skye Lava Field, facies architecture 911–926
Snobs Creek volcanics 223–228
Snowdonia, volcanic rock mass properties 939–946
Society awards 545–546
soft tissue preservation 735–738
Songpan–Ganzi terrane 773–781
Soom Shale 735–738
South Africa
  Bushveld chromitites 903–909
  Bushveld thermochronology 411–420
  Cretaceous valley fill 185–208
  Karoo rhyolite age 547–550
  Triassic ecology 401–410
South China Craton 773–781
South Harris Complex 837–848
  Lewisian orthogneiss age 45–54
South Stack Group 743–746
Southern Uplands accretionary history 829–836
Spain
  Pliocene carbonates 387–399
  see also Iberia
$^{87}Sr/^{86}Sr$ chemostratigraphy, Dalradian limestones 229–242
stable isotopes *see* $\delta^{13}C$, $\delta^{18}O$, $\delta^{34}S$
Stevns Klint K–T boundary 343–352, 885–892
strain
  Everest Massif petrofabrics 305–320
  fold geometry in Belgium 641–652
stratigraphic boundaries
  Denmark 343–352, 885–892
  SW Britain 365–379, 1053–1056
stratigraphy
  Palaeocene of North Sea 381–386
  see also cyclostratigraphy
stress, calcite in mylonites 67–79
strike-slip faults, role in basin formation 593–602
structural geology
  East Greenland 1009–1026
  South Urals 813–822
structure
  Palaeoproterozoic of Broken Hill 55–66
  Ross orogen 1027–1038
  Variscan of Bristol Channel 31–44
subduction
  Mesozoic of Tibet 523–538
  Tethys evolution 501–511
submarine shelf, debris avalanches of West Indies 147–160
subsidence, Palaeocene of North Sea 381–386

Taapaca Volcanic Complex (Chile) 603–618
Tarfaya (Morocco), Cretaceous chemostratigraphy 711–719
Taupo Volcanic Zone, rhyolitic magmatism 757–772
tectonics
  Lewisian Complex construction and evolution 837–848
  Madagascar discussion 539–541
  Menderes massif 93–101
  Tethys evolution 501–511
  transpression of Indochina 799–812
Tenerife, volcanic rock mass properties 939–946
tephra eruptions 947–957
terranes
  Argentinian Precordillera 747–756
  Lewisian Complex construction and evolution 837–848
terrestrial environments, Carboniferous of Canada 209–222
Tertiary
  inversion in Iberian Chain 291–303
  see also Neogene; Palaeogene
Tethys, evolving model 501–511
Thailand, Cretaceous–Palaeogene orogeny 799–812
theoretical models, Cenozoic uplift 19–29
thermochronology, Bushveld Complex 411–420

thrusting, belts and faults
  Caledonian 1009–1026
  Moine Thrust Belt evolution 849–859
  NW Scotland 551–554
  South Urals 813–822
Tibet
  petrofabric analysis 305–320
  rifting and mantle plumes 773–781
  subduction–accretion studies 523–538
Timirovo duplex 67–79
Toarcian palaeoceanography 685–693
total organic carbon (TOC) *see* organic carbon
Tournasian lycopsids 969–981
Transantarctic Mountains 1027–1038
transpression
  Indochina 799–812
  Lower Palaeozoic of Belgium 641–652
  Ross orogen 1027–1038
Triassic
  ecology of South Africa 401–410
  North Atlantic rifting 583–592
  sea-level change at Jurassic boundary 365–379, 1053–1056
  Tethys evolution 501–511
trilobites, Cambrian biogeography 477–487, 513–522
Turkey
  dating of metamorphism in Anatolia 823–828
  modelling Tethys 501–511
  structural and thermal history 93–101
twinning in calcite in mylonites 67–79

U/Pb dating
  Armorica 463–476
  Caledonian metasediments 619–627
  detrital zircons 243–254
  Devonian volcanics 223–228
  Greenland dykes 421–430
  K-bentonites of Argentinian Precordillera 747–756
  Karoo rhyolites 547–550
  Lewisian Complex construction and evolution 837–848
  Lewisian orthogneiss 45–54
  Menderes massif 93–101
  metamorphism in Anatolia 823–828
  Ordovician porphyroids 265–276
  South Stack Group 743–746
  zircons of Moine Supergroup 861–874
unconformity
  Jurassic–Cretaceous of North Sea 1–17
  Neoproterozoic in Ireland 629–640
Upheaval Dome (Utah) 593–602

uplift
  Cenozoic in Britain 19–29
  Gulf of Corinth 81–92
  Palaeocene of North Sea 381–386
Urals
  accretionary prism 67–79
  structural geology 813–822
US Gulf Coast, Palaeocene–Eocene floral change 173–184

Variscan
  anatexis in Peña Negra Complex 255–263
  Bristol Channel structure 31–44
  evolution of orogeny 463–476
vegetation, Palaeocene–Eocene of North America 173–184
volcanic hazard, rock properties and edifice collapse 939–946
volcanic risk, Chile 603–618
volcaniclastics, deep sea 947–957
volcanics, Devonian of Australia 223–228
volcanism, impact on Mesozoic palaeoclimate 695–702
volcanology, Iberian Pyrite Belt 103–115
vorticity, flow in Greater Himalayan Slab 305–320

Waimangu geothermal area 983–993
Wealden Group carbon isotope stratigraphy 133–145
West Indies, geomorphology of Montserrat 147–160
Whin Sill, intrusion and geomagnetism 927–938
White Stone Band, environmental significance 675–683
Willyama Supergroup 55–66
wood, Cretaceous carbon isotope stratigraphy 133–145

Yarlang–Tsangpo Suture 523–538

Zimbabwe craton 431–445
zircon ages
  Armorica 463–476
  Cambrian clastics of Avalonia 243–254
  Devonian volcanics 223–228
  Greenland dykes 421–430
  Karoo rhyolites 547–550
  Peña Negra Complex 255–263
  South Stack Group 743–746
zircons
  paragenesis in Ballachulish Complex 447–462
  provenance in Moine Supergroup 861–874
Zuccale fault 1039–1051